8200104

### <u>antie unitheid shanes of antierica</u>

TO ALL TO WHOM THESE PRESENTS SHALL COME:

# Moran Seeds, Inc.

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#### Sicreeneelanny coll Aggarlasmidannes

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IS SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLAN VARIETY PROTECTION OFFICE, IN THE APPLICANT (S) INDICATED IN THE SAID COPY, AND WHEREAS, UPOn DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED 110 A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OK ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF FOLIA MADE OF THE SUCCESSORS, HEIRS OK ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF FOLIA MADE OF SEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FOLES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SED OFFICE OF THE NORTH OF THE REGIT TO EXPEDIT OF THE SUBJECT OF THE PAYMENT OF THE REGIT TO EXPORTING IT, OR SELLING THE VARIETY, OR OFFICE OFFICE OFFICE OF THE PRODUCING IT, OR EXPORTING IT, OK USING IT IS PRODUCING A HYBRID OK DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT

TOMATO

'Advantage'

In Testimony Whereot, I have hereunto sel my hand and caused the seal of the Plant Variety Protection Office to be affired at the City, of Washington this 28th day of October in the year of our Lord one thousand nine

hundred and eighty-two.

Secretary of Agriculture

Attest

Acting Commissioner
Plant Variety Protection Office

Plant Variety Protection Office Grain Diaision

Agricultural Marketing Service

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE		FORM APPROVED: OMB NO. 0581-0005	
LIVESTOCK, MEAT, GRAIN &S  APPLICATION FOR PLANT VARIETY P  (Instructions on reve	PROTECTION CERTIFICATE	No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 5(53).	
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME 8917 5/15	
Moran Seeds, Inc.	NCX 3058	None AdvANTAGE	
4. ADDRESS (Street and No. or R. F.D. No., City, State, and Zip	Code) 5. PHONE (Include area code)	FOR OFFICIAL USE ONLY	
1155 Harkins Road Salinas, CA 93901	(408) 757-3651	8200104	
6. GENUS AND SPECIES NAME 7. FAM	I LY NAME (Botanical)	DATE	
Lycopersi con escul entum So	ol anaceae	4/20/82 10:30 \ \mathbb{A} \text{A.M.} \ \mathbb{P} \text{P.M.}	
8. KIND NAME	9. DATE OF DETERMINATION	AMOUNT FOR FILING	
Tomato	September 1979	\$500.00 DATE 4/20/82 AMOUNT FOR CERTIFICATE	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE partnership, association, etc.)  Corporation	E FORM OF ORGANIZATION (Corporation,	AMOUNT FOR CERTIFICATE  \$ 250.00	
-		9/28/82	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION California	V	12. DATE OF INCORPORATION  December 29, 1978	
Mbran Seeds, Inc. 1155 Harkins Road Salinas, CA 93901  14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT  a. Exhibit A, Origin and Breeding History of the Variety Section 52 of the Plant Variety Protection Act.)		Description of the Variety (Request form rotection Office.)	
b. Exhibit B, Novelty Statement	C <del>V</del> 1	Description of the Variety	
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF TH SEED? (See Section 83(a) of the Plant Variety Protection	4-()	ONLY AS A CLASS OF CERTIFIED items 16 and 17 below)	
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIED LIMITED AS TO NUMBER OF GENERATIONS?	TY BE 17. IF "YES" TO ITEM 16, BEYOND BREEDER SE	WHICH CLASSES OF PRODUCTION ED?	
Yes c   No  18. DID THE APPLICANT(S) FILE FOR PROTECTION OF TH	l 0 Foundation	Registered 0 Certified	
( <b>-</b> ,,,,,,,,,,		Yes (If "Yes," give names of countries and dates)	
		X No	
19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHE	ER COUNTRIES?	Yes (If "Yes, " give names of countries and dates)	
<b>20.</b> The applicant(s) declare(s) that a viable sample of basi	ic seeds of this variety will be furnished	with the application and will be re-	
plenished upon request in accordance with such reguest. The undersigned applicant(s) is (are) the owner(s) of distinct, uniform, and stable as required in Section 4 Variety Protection Act.	tlations as may be applicable.  this sexually reproduced novel plant v 1, and is entitle d to protection under the	ariety, and believe(s) that the variety is e provisions of Section 42 of the Plant	
Applicant(s) is (are) informed that false representation	n herein can jeopardize protection and		
SIGNATURE OF APPLICANT	na	DATE. 4/15/82	
SIGNATURE OF APPLICANT	/	DATE 1	

# INSTRUCTIONS

General: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Department of Agriculture, Agricultural Marketing Service, Livestock, Meat, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 780.775 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

#### ltem

- 9 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41 (a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 15 If "Yes" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "No," he may change his choice. (See section 780.76 of the Regulations and Rules of Practice.)
- 16 See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

AMS, LFGAS DIV.

BYPO

#### **EXHIBIT A**

#### Origin and breeding history of the variety.

- Advantage 994 8/17 /8>
  1. NCX 3058 originated in California from a hand pollinated cross between 64Y241-3 (from So. Dakota) and a proprietory line which resulted from a cross of Kecskemeti 1030 (Hungary) times Long John (California). The crosses were completed in 1968.
- 2. Pure line selections were made through F-7. The F-8 was bulked. A single plant selection was made in F-9 and the F-10 was bulked and labeled NCX 3058 in 1979. Selections were based on horticul.tural type for machine harvest and for high soluable solids. Yield and adaptation studies were conducted in up to twenty-four locations from 1979 to 1981.
- 3. NCX 3058 breeds true and no varients have been found.
- 4. The genetic makeup of the variety was stabilized in F-9. Three successive years of field trials showed no offtypes and therefore a homogenous variety. Soluable solids data indicate that NCX 3058 out performs the standard variety 7879 in most environments.



CABLES: MORANSEEDS SALINAS

1155 HARKINS ROAD . SALINAS, CALIFORNIA 93901 . PHONE (408) 757-3651

Original Novelty Statement:

Holvantage 573-75-P8/17/82

₩CX-3058 as larger fruits and higher solubble solids than all other firm varieties. In addition, NCX 3058 has jointless fruit pedicel. There is no commercial variety with which it could be mistaken.

#### - Revised Novelty Statement:

NCX 3058 most closely resembles the variety Niagara 3032, but it's easily distinguished from it by the following characteristics:

- 1. NCX 3058 is firmer than 3032.
- 2. NCX 3058 has larger fruit size than 3032.
- 3. NCX 3058 has higher soluable solids than 3032.
- 4. NCX 3058 has a larger and lighter green plant than 3032.
- 5. NCX 3058 has predominant fruit shape #4 (see objective description). NCX 3032 has fruit shape #7.

# U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, GRAIN, AND SEED DIVISION BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY
TOMATO (Lycopersicon esculentum Mill.)

TOMATO (Lycopersicon	esculentum Mill.)	211
Name of applicant	Temporary designation	
Moran Seeds,' Inc.	NCX 3058	-None Advantage 1:7
Address (Street and No. or R.F.D. No., Cit Post Office Box 2508 El Macero, California 95618	y, State, Zip)	FOR OFFICIAL USE ONLY PVPO NUMBER 8200104
Complete this form as <b>fully</b> as possible t	.g. fruit weight), your plants. The applicant valued check variety of the son this form should be for the variety. Indicated X plantings. Trickles of trials	answer should be the ariety should be he same type, and be described from plants to by a check whether lals direct-seeded X S. C a . Aug. 1981
1. SEEDLING: $(2-15 \text{ cm, well-illuminated})$ Anthocyanin in hypocotyl: $1 = \text{ak}$ Cotyledon: $1 = \text{no}$	osent 2 <b>=</b> present <b>rmal</b> 2 <b>=</b> giant	
2. MATURE PLANT:  Growth: 1 = indeterminate 2 = Size (compared to others of its graph Habit: 1 = sprawling (decumbent)  Foliage cover: 1 = light 2 = 1	semi-determinate 3 = rowth type): 1 = small 2 = semi-erect 3 = moderate 3 = heavy	determinate 2 <b>≈</b> medium 3 <b>≈</b> large erect
3. STEM:  1 = short ( ) 2 = in  2 Branching: 1 = sparse (Brehm's S  3 = profuse (UC82)  Branching at cotyledonary or first  Pubescence: 1 = smooth (no long  3 * densely hairy or  1 = few ( ) 2 = inter  No. of nodes below the first: inf  1 = few ( ) 2 = inter  Thickness: 1 = slender, weak 2	and 4th Inflorescences) ntermediate ( ) Solid Red) 2 = intermediate leafy node: 1 = present sparsely has canescent slorescence: extendiate ( 4 ) 3	diate (VF1457879)  ent 2 = absent lairy (scattered long hairs)  3 = many ( )
4. LEAF (Mature leaf under the 1st to 3  Type: 1 = tomato 2 = potato  Division: 1 = once-pinnate 2 = 3 = bipinnate, many smal  Attitude: 1 = semi-erect 2 = 2  Leaflet blade: 1 = thin 2 = med  Bases of major leaflets: 1 = every smale 2  Margins of major leaflets: 1 = concentrations of major leaflet	Intermediate (pinnate- l leaflets with the lar horizontal 3 droopir lium 3 thick n 2 blique (the side nearly entire 2 shale eeply toothed or cut, es	rge ones ng es offset on petiole) llowly toothed or scalloped

(9)

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TOMATO - 2
4. LEAF (Mature leaf under the 1st to 3rd inflorescences) (continued):
         Surface of major leaflets: 1 ■ smooth 2 ■ rugose (bumpy or veiny)
         Leaflet: 1 = normal 2 = slightly wilty 3 = wilty
         Shape of major leaflets: 1 - broadly ovate 2 - ovate to lanceolate
        3 slender and lsnceolate, tapered to a point Pubescence or hairiness: 1 smooth 2 normal 3 wooly
   4 Color of leaflets: 1 = light green (Earlinorth) 2 = medium green ( )
3 = gray-green ( ) 4 = dark green (UC82) 137A)
2 Color of leaf on check variety (same scale): Variety VF145-7879(46A)
    INFLORESCENCE:
        Type: 1 = simple (racemose) 2 = forked (2 major axes) 3 = compound (much branche
        No. of flowers setting fruit (In 2nd or 3rd inflorescence):
                        2 = 4-8, 3 = 8-12, 4 = 12 or more
   FLOWER:
   【 1 Calyx: 1 ≈ normal (lobes awl-shaped) 2 ≈ macrocalyx (lobes large, leaflike)
                  3 = fleshv
        Flower color: 1 = yellow 2 = old gold 3 = white or tan

Style exsertion: 1 = included 2 = even with stamens 3 = exserted
        Style pubescence: 1 = absent 2 = sparse 3 = dense
        Anthers: 1 = all fused into tube 2 = separating into 2 or more groups at anthesis Fasciation (1st flower of 2nd or 3rd infloresence):
            1 = absent 2 = occasionally present 3 = frequently present
   FRUIT (3rd fruit of 2nd or 3rd cluster):
        Abscission layer: 1 - present (pedicellate) 2 - absent (jointless)
        mm. Length of pedicel (from abscission layer or joint to calyx attachment)
        Mature fruit: Maximum diameter:
                          1 = small cherry (<20 mm)
2 = large cherry (20-35 mm)
3 = cocktail (35-48 mm)
5 = U.S. small (54-58 mm)
6 = U.S. medium (58-64 mm)
7 = U.S. large (64-73 mm)
8 = U.S. extra large (73-88 mm)
                           9 = U.S. maximum large (88-100 mm) 10 = U.S. maximum large ( > 100 mm)
   [4] Maximum diameter of check variety, same classes as above
           (Specify name) VF145-7879
       g Fruit weight 087 g Check variety VF145-7879
   4 Predominant fruit shape:
                    (1)
                                              (2)
                                                                      (3)
      (5)
                            (6)
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(7)

7. FRUIT (3rd fruit of 2nd or 3rd cluster): TOMATO = 3	
Shape of transverse section:	
3 Shape of blossom end:	
l=indented 2=flat 3=nippled 4=tapered  l=flat 2=indented 2=indented	ų.
Shape of pistil scar:	
Fruit surface: 1 = smooth 2 = slightly fasciated 3 = moderately fasciated  1 Fruit color (mature-green stage):  1 = light green ('Lanai', VF145-F5) 2 = Lt. gray-green (  3 = 1439  4 = 1439  4 = 1439  4 = 1439  4 = 1439  5   Maine Bull pitten finit gole olar gen   materigen   full-right   Maine VF')   1 = 1 with = gen dat shoulted 2 = pellor gen (23 == uniform tangerine) green	
4 = pink 5 = red 6 = brownish-red 7 = greenish 8 = other (specify)  Flesh color (full-ripe): 1 = yellow2 = red 3 = crimson 4 = other  Epidermis: 1 = normal 2 = easy-peel  Epidermis color: 1 = colorless 2 'yellow  Epidermis thickness: 1 = thin 2 = average 3 = thick  Thickness of pericarp: 1 = thin ( < 3 mm) 2 = medium (3-6 mm) 3 = thick ( > 6 mm)  Thickness of pericarp of check variety (same scale) Variety: VF145-7879  Core size: 1 = coreless 2 = small 3 = medium 4 = large  Core shape: 1 = solid, unbranched 2 = branched  Core texture: 1 = soft, edible 2 = tough or fibrous  Stem scar size: 1 = small ( ) 2 = medium (8-9 mm) 3 = large ( No. of locules: 1 = two 2 = three and four 3 = five or more  Fruit firmmess (minimum table-ripe):	)
1 * extra-soft ('Gardener') 2 * very soft ('Valiant') 3 * soft ('Campbell 28') 4 * fairly firm ('Tropic') 5 * firm ('MH-1') 6 * very firm ('UC-82')	
8. <b>PHENOLOGY</b> (Growing degree days, or heat units on a base temperature of <b>51º</b> F are preferablebut you may report either growing degree days or calendar days. Circle either "days" for calendar days, or "heat units" for growing degree days):	
(Days/heat units from seed to first open flower: 48 days, Application variety 48 days, Check variety No. 1 VF145-7879 48 days, Check variety No. 2 Niagara 3032	
(Days)heat units from seed/trainsplant (Indicate which) to first ripe fruit:  days, Application variety days, Check variety No. 1 VF145-7879  days, Check variety No. 2 Niagara 3032	

r definitions of these subjective terms see Kader & Morris (1976) In: Proc. 2nd Tomato Quality ackshop.

#### TOMATO - 4

•	8. <b>PHENOLOGY (Growing</b> degree <b>days</b> , or heat <b>units</b> on a base temperature of <b>51<sup>o</sup></b> F are' preferable—but you may report either growing degree days or calendar days. Circle either "days" or calendar days, or "heat units" for growing degree days) (Continued):
	(Days/heat units from seed/transplant (indicate which) to once-over harvest, if applicable:
	135 days, Application variety [25] days, Check variety No. 1 VF145-7879 . 135 days, Check variety No. 2 Niagara 3032
	Days/heat units from breaker to full-ripe stage:    O 8   days, Application variety   O 0 8   days, Check variety No. 1 VF145-7879     O 1 0 days, Check variety No. 2 N1agara 3032
I/A	Shelf life of ripe fruit:  days, Application variety  days, Check variety No. 1  days, Check variety No. 2
	Fruiting season: 1 - long ('Marglobe') 2 - medium ('Westover') 3 - short, concentrated ('VF 145') 4 - very concentrated ('UC 82')  Relative maturity: 1 - early 2 - medium early 4 - medium late 5 - late
-	9. ADAPTATION (if more than one category applies, list all In rank order):
	Culture: 1 = field 2 = greenhouse  1
	Southeast    1
	11 = Other (specify)  2 Growing season temperature: 1 = cool 2 = normal warm 3 = hot 4 = general  3 Growing season humidity: 1 = humid 2 = semi-arid 3 = general  3 Soils: 1 = mineral 2 = organic 3 = general
-	10. RESISTANCE OR TOLERANCE TO ENVIRONMENTAL STRESS:
	High temperature fruit set (subjective evaluation based on fruit set at temperatures that normally inhibit set In area of evaluation):
	1 = poor 2 = fair 3 = good ('Summertime') AREA Imperial Valley, Ca.  Low temperature fruit set (subjective evaluation based on fruit set at low temperature that normally inhibit germination): 1 = poor 2 = fair 3 = good ('Veecrop')
	AREA Davis, Ca.  1 = poor ( ) 2 = fair ( ) 3 = good ( )
	11. RESISTANCE TO FRUIT DISORDERS (Use code: O=unknown, l-susceptible, Z-resistant):,-,. 1  2 Blossom end rot 2 Catface 3 Cracking, concentric 5 Cold fleck 2 Cracking, radial 5 Fruit pox 6 Craywall or blotchy 5 Craywall or blotchy

### TOMATO - 5

19 NICOLCU AND DUGU BULGUYAN (** 1
12. DISEASE AND PEST REACTION (Use code: O-not tested, 1-susceptible. 2-resistant) If claim of novelty is based wholly or in part upon disease resistance, trial data should be appended (Exhibit
D) and <b>should</b> include <b>date</b> and location of trial(e), <b>method</b> of testing, <b>reaction</b> of application variety, <b>and reaction</b> of check varieties (identified by name).
Viral Diseases:
O Cucumber mosaic, Race 0 Tobacco mosaic, Race 2 (Tm 22) O Tomato spotted wilt O Tomato yellows
Bacterial Diseases:
Bacterial canker (Corynebacterium michiganense) Bacterial speck (Pseudomonas tomato) Bacterial wilt (Pseudomonas solanacearum) Other bacterial disease (specify)  Bacterial soft rot (Erwinia carotovora) Bacterial spot (Xaathomonas vesicatorium)
Fungal Diseases:
Anthracnose (Colletotrichum spp.)  Brown root rot or corky root (Pyrenochaeta lycopersici)  C Early blight (Altemaria solaai) defoliation Fusarium wilt, Race 2(F.oxysporum f. lycopersici)  Late blight, Race 0 (Phytophthora infestans)  Leaf mold, Race 1 (Cladosporium fulvum)  Leaf mold, Race 3 (C. fulvum)  Nailhead spot (Alternaria tomato)  Rhizoctonia soil rot (R. solani)  Southern blight (Sclerotium rolfsii)  Verticillium wilt, Race 1 (V. albo-atrum)  Other fungal diseases(specify)  Insect and Pests:  Colorado potato beetle (Leptinotarsa decemlineata) Root knot nematode (Meloidogyne incognita)  Spider mites (Tetranychus spp.)  Sugar beet army worm (Spodopfora exigua)  Tobacco flea beetle (Epitrix hirtipennis) Tomato fruitworm (Heliothis zeal  Whitefly (Trialeurodes vaporariorum)  Other (specify)
Other (specify)
'ollutants:
O Sulfur dioxide O Other (specify)
REFERENCES  Anonymous, 1976. All About Tomatoes. Ortho Books, Chevron Chemical Co., San Francisco. In three volumes: Midwest/Northeast Edition, West Edition, and South Edition.  Ware, G. W. & J. P. McCollum, 1968. Producing Vegetable Crops. The Interstate Printer & Publishers, Inc., Danville, Illinois. (Chapter 30, pp. 451-473, "Tomatoes".)  Webb, R. E., T. H. Barksdale, & A. K. Stoner, 1973, "Tomatoes" pp. 344-361 In: Nelson, R.R. (E Breeding Plants for Disease Resistance. Pennsylvania State University Press, University Payroung, P. A. & J. W. MacArthur, 1947. Horticultural characters of tomatoes, Bull. Texas Agric. Exper. Station No.

#### **EXHIBIT D**

Data indicative of novelty.

NCX 3058 has had consistently higher soluable sol ids than any other firm standard variety. The enclosed data is from the 1980 and 1981 trials of a major California processor. This data clearly shows NCX 3058 having equal or better soluable solids than the compared standard in 49 out of 51 different grower trials in these two years.

The large fruit size of NCX 3058 is also unique among processing tomatoes. This size is also indicated by the 1980/81 processor data. NCX 3058 had larger fruit than the standard varieties in 49 of 51 trials.

#### ASSIGNMENT

WHEREAS, Moran Seeds, Inc. ("Moran"), a corporation duly organized and existing under the laws of the State of Delaware is the owner of United States Plant Variety Protection Certificates (the "Certificates"), listed in Exhibit A hereto and Pending United States Plant Variety Protection Applications (the "Applications"), listed in Exhibit **B** hereto; and

WHEREAS, in accordance with a Technology Transfer Agreement (the "Transfer Agreement") among Celanese Corporation ("Celanese"), Moran Seeds, Inc., Joseph Harris Company, Inc., CelPril Industries, Inc., Harris Moran International B.V. ("Sellers"), Virginia Chemicals, Inc., Les Produits Organiques du Santerre-Orsan S.A. ("Orsan"), HMS Acquisition Inc., CP Acquisition Inc., and Exploitatiemaatschappij Wolwevershaven B.V., dated January, 1985, and a Purchase Agreement dated December 7, 1985, as amended, among Celanese, Sellers and Orsan, Orsan has purchased from Moran said Certificates and Applications.

NOW, THEREFORE, in accordance with said Transfer Agreement and Purchase Agreement, Moran assigns to Orsan all of its rights, title and interest in and to said Certificates and Applications.

Moran hereby authorizes Orsan to apply for and obtain the recordation of this Assignment. Moran agrees that it shall, without further consideration, promptly and duly cause to be performed such lawful acts and execution of any other documents as Orsan may reasonably request in order for Orsan to obtain the full benefits of this Assignment and to permit Orsan to be duly recorded in each office, bureau and tribunal in the appropriate jurisdiction as the registered owner or proprietor of each of the rights hereby assigned. Such instruments and documents shall include, without limitation, such applications, affidavits and other documents for filing in such jurisdictions as Orsan may from time to time reasonably request.

By these presents Orsan does hereby accept this Assignment and authorize the recording thereof with the appropriate authorities aforesaid.

IN WITNESS WHEREOF, the parties have caused this Assignment to be executed by its proper officers thereunto duly authorized this have caused this day of January, 1985.

MORAN SEEDS, INC., Assignor

> David A. Jenkins Vice President

LES PRODUITS ORGANIQUES DU **SANTERRE-ORSAN** S.A. Assignee

STATE OF New York

Before me, a Notary Public, in and for said County, personally appeared Norm Seeds, Inc., the corporation which executed the foregoing instrument and who acknowledged he signed said instrument on behalf of said corporation by authority of its Board of Directors; and that said instrument is the free corporate act and deed of said Moran Seeds, Inc.

of January, 1985 when at New York this 11 the day

NOTARY PUBLIC

(Notary Public)

My Commission Expires:

#### United States Plant Variety Protection Certificates

Cert. No.	Date Issued	<u>Kind</u>	Variety Name	Owner
7200145	10/30/74	Garden Bean	Gem	Moran Seeds, Inc.
7200146	11/15/74	Watermelon	Charleston 76	Moran Seeds, Inc.
7400013	5/9/74	Lettuce	Calmaria	Moran Seeds, Inc.
7400014	6/19/74	Lettuce	Cal K-60	Moran Seeds, Inc.
7400071	6/19/74	Lettuce	Cabrillo	Moran Seeds, Inc.
7600032	9/15/77	Lettuce	Vanagara	Moran Seeds, Inc.
7600039	12/8/77	Lettuce	Morangold	Moran Seeds, Inc.
7800028	5/31/79	Muskmelon	Valley Gold	Moran Seeds, Inc.
7900038	1/14/82	Garden Bean	Blue Duet	Moran Seeds, Inc.
7900039	7/15/82	Snapbean	Score	Moran Seeds, Inc.
7900066	11/27/79	Cauliflower	Snowball 123	Moran Seeds, Inc.
8000020	7/31/80	Muskmelon	Top Net	Moran Seeds, Inc.
8000082	12/10/81	Lettuce	Delmar	Moran Seeds, Inc.
8200019	10/28/82	Onion	OMO M	Moran Seeds, Inc. Oshita, Inc.
8200061	3/24/83	Watermelon	Sun Gold	Moran Seeds, Inc.
8200104	10/28/82	Tomato	Advantage	Moran Seeds, Inc.
8200105	11/26/82	Tomato	Moran 3053	Moran Seeds, Inc.
8200027	4/23/83	Lettuce	El Toro	Moran Seeds, Inc.
8100172`	9/29/83	Lettuce	Van Mor	Moran-Seeds, Inc.
8300113	8/31/84	Muskmelon	Top Net SR	Moran Seeds, Inc.

STATE OF New York COUNTY OF Now York

Before me, a Notary Public, in and for said County, personally appeared fature lattice who acknowledged that he is produits Organiques du Santerre-Orsan S.A., the corporation which executed the foregoing instrument and who acknowledged he signed said instrument behalf of said corporation by authority of its Board of Directors; and that said instrument is the free corporate act and deed of said Les Produits Organiques du Santerre-Orsan S.A.

day of January, 1985.

Sworn before me\_at New York this 10th

Class C. Lengyel

(Notary Public)

My Commission Expires:

ALEX C. LENGTO: Otaly Poblic State of Non-Lork Commission Express No 11 0 108 6

Pending United States Plant Variety Protect	tion Applications
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Application No.	<u>Filing Date</u>	<u>Kind</u>	Variety Name	Owner	
8100167	9/9/81	Lettuce	Yuma	Moran	Seeds , Inc.
8300155	7/18/83	Celery	Bishop	Moran	Seeds , Inc.
8300156	7/18/83	Celery	Deacon	Moran	Seeds , Inc.
8300172	9/1/83	Tomato	Diego	Moran	Seeds , Inc.
8400013	12/1/83	Lettuce	Greenfield	Moran	Seeds , Inc.

#### DEED OF ASSIGNMENT

WHEREAS, Les Produits Organiques du Santerre – ORSAN (S .A.), a French corporation having a place of business at 16 rue Ballus, 75009 Paris, France (hereinafter referred to as "ASSIGNOR") owns and is using the Plant Variety Protection Certificates listed on the attached Exhibit for the indicated varieties which were awarded to ASSIGNOR by the Secretary of Agriculture on the indicated dates upon applications filed with the United States Plant Variety Protection Office; and

WHEREAS, Arisix (S.A.), a French corporation having a place of business at 6 1 rue des Belles Feuilles, 75 116 Paris, France,

(hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to the said varieties and Plant Variety Protection Certificates;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE'S successors and assigns, all right, title and interest in and to the said varieties and said Plant Variety Protection Certificates in the United States including reissues, and including the right to enforce such rights against any past, present or future violation thereof, the said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any right, title and interest assigned and transferred hereby.

ASSIGNOR further agrees that it will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the assignment of said Certificates and the perfection of all rights thereto, execute, verify, acknowledge and deliver all such further papers and instruments of assignment and transfer

thereof, and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain the listed Certificates and to vest title thereto in said ASSIGNEE or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, an authorized representative of ASSIGNOR has hereunto signed its name to this assignment on the date indicated below.

	Les Produits Organiques du Santerre
	- ORSAN (S.A.)
Date: //(1/95	Molnez
	,
	PHILIPPE ROLLIER
	Print Name
	PRESIDENT
	Print Title
	11111
On this date,	, 1093, before me, the undersigned notary public,
	armed assignor, known to me (or proved to me on
	) to be the person whose name is subscribed to the
within instrument, and acknowle	
	(Notaire)
	A ADM. CENTIFICATION WHEREIGH A
	de 12 alguarre diguerre
Seal/Stamp	RECEIVED TO THE PARTY OF THE PA
	ROUGES
	Fait à Paris, le . M. J.A. 1.99
	THE WALL
	Notaire

#### DEED OF ASSIGNMENT

WHEREAS, Arisix (S.A.), a French corporation having a place of business at 61 rue des Belles Feuilles, 75 116 Paris, France (hereinafter referred to as "ASSIGNOR") owns and is using the Plant Variety Protection Certificates listed on the attached Exhibit for the indicated varieties which were awarded to ASSIGNOR by the Secretary of Agriculture on the indicated dates upon applications filed with the United States Plant Variety Protection Office; and

WHEREAS, Clause (S. A.), a French corporation having a place of business at 1 Avenue Lucien Clause, 91221 Bretigny sur ORGE Cedex, France,

(hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to the said varieties and Plant Variety Protection Certificates;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and vaiuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE'S successors and assigns, all right, title and interest in and to the said varieties and said Plant Variety Protection Certificates in the United States including reissues, and including the right to enforce such rights against any past, present or future violation thereof, the said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any right, title and interest assigned and transferred hereby.

ASSIGNOR further agrees that it will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the assignment of said Certificates and the perfection of all rights thereto, execute, verify, acknowledge and deliver all such further papers and instruments of assignment and transfer

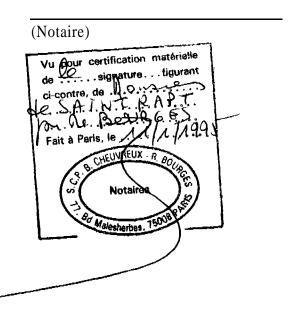
thereof, and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain the listed Certificates and to vest title thereto in said ASSIGNEE or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, an authorized representative of ASSIGNOR has hereunto signed its name to this assignment on the date indicated below.

Date: 1/11/45	Arisix (S.A.)
	D Dr SAINT RAPT
	Print Name
	PAES: DENT.
	Print Title

On this date, \_\_\_\_\_, 1093, before me, the undersigned notary public, personally appeared the above-named assignor, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same.

Seal/Stamp



#### **EXHIBIT**

Certif. #	Date Status	Crop	Variety Name
7.00002	Begins Oct 15 /77	Y	77
<del>-760003</del> 2	09/15/77	Lettuce	Vanagara
<del>-7600039</del>	12/08/77	Lettuce	Morangold
<del>-76050</del> 18	09/28/77	Marigold	Cabaret Orange
7800028	05/31/79	Muskmelon	Valley Gold
7800033	12/21/78	Radish	Fancy Red
7800086	01/25/79	Lettuce	Deep Red
7900038	01/14/82	Garden Bean	Blue Duet
7900039	07/15/82	Garden Bean	Score
7900066	11/27/79	Cauliflower	Snowball 123
8000020	07/31/80	Muskmelon	Top Net
8000082	12/10/81	Lettuce	Delmar
8100167	3/29/85	Lettuce	Yuma
8100172	09/29/83	Lettuce	Van Mor
8200027	04/23/83	Lettuce	El Toro
8200045	09/23/82	Turnip	Royal Gem
8200061	03/24/83	Watermelon	Sun Gold
8200068	12/30/82	Egg Plant	Little Fingers
8200104	10/28/82	Tomato	Advantage
8200105	11/26/82	Tomato	Moran 3053
8300024	12/30/83	Radish	Red King
8300113	08/31/84	Muskmelon	Top Net SR
8300155	02/22/85	Celery	Bishop
8300156	01/25/85	Celery	Deacon
8300172	11 <b>/29/85</b>	Tomato	Harris Morgan 3075
84000 13	2/19/88	Lettuce	Greenfield
8600032	03/11/88	Tomato	Murrieta II

Expired Expired Expired

#### PLANT VARIETY PROTECTION REGISTRATION ASSIGNMENTS

#### Clause, S.A. to Harris Moran Seed Company

WHEREAS, Clause, S.A. ("Assignor"), a corporation organized and existing under the laws of France, has sold and transferred assets, including plant variety protection registrations, to Harris Moran Seed Company ("Assignee"), a corporation organized and existing under the laws of the State of Maryland;

WHEREAS, Assignor, is the owner of the following plant variety protection registrations:

<b>VARIETY NAME</b>	Registration No.	Issue Date
BLUE DUET	790003 8	01/14/82
SCORE	7900039	07/15/82
TOP NET SR	8300113	. 08/31/84
TOP NET	8000020	07/31/80
SNOWBALL 123	7900066	11/27/79
BISHOP	8300155	02/22/85
DEACON	8300156	01/25/85
LITTLE FINGERS	8200068	12/30/82
el toro <b>mi</b>	8200027	04/28/83
DELMAR <b>MI</b>	8000082	12/10/81
GREENFIELD <b>MI</b>	8400013	02/19/88
van mor <b>mi</b>	8100172	03/29/83
YUMA MI	8100167	03/29/85

ASSIGNMENT OF **INTELLECTUAL** PROPERTY

WHEREAS, HARRIS MORAN SEED COMPANY, a corporation duly organized and

existing under the laws of the State of Maryland, having its principal place of business at 45 11

Willow Road, suite 3, Pleasanton, California 94588 ("Assignor"), has, pursuant to that certain

Bill of Sale and Assignment dated as of June 30, 1997, transferred to FERRY-MORSE SEED

COMPANY (CALIFORNIA), a corporation duly organized and existing under the laws of the

State of California, having its principal place of business at **555 Codoni** Avenue, **P.O.** Box 4938,

Modesto, California 953524938 ("Assignee"), all of the intellectual property Assignor had

adopted used and was using as of the effective date of this Assignment, including without

limitation, the intellectual property represented by the United States Plant Variety Protection

Certificates of Assignor **identified** on Schedule A hereto (collectively, the "Property"); and

WHEREAS, on the date hereof, Assignee has changed its name to "Harris Moran Seed

Company";

NOW, **THEREFORE**, effective by this instrument as of the close of business on

June **30, 1997**, and for good and valuable consideration, receipt of which is hereby

acknowledged, Assignor hereby assigns to Assignee any and all right, title and interest

worldwide in and to the Pretperty and any and all recordations thereof, including, but not limited

to, the use of the Property in any manner, all benefit of any and all prior use of the Property, and

any and all-tights to initiate claims-or proceedings for past, present or future infringements of

Assignor's rights, title and interest in and to the Property.

Dated: as of June 30, 1997

HARRIS MORAN SEED COMPANY

NEWY01A:171511:1:09/26/97

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## CERTIFICATE OF AMENDMENT

OF THE

ARTICLES OF INCORPORATION

OF

FERRY-MORSE **SEED COMPANY (CALIFORNIA)**(a California corporation)

ENDORSED FILED

In the office of the Secretary of State of the State of California

JUN 3 0 1997

BILL JOHES, Segretary of State

To the **Secretary** of State **State of California** 

**Pursuant to** the **provisions** of the General Corporation Law of the **State** of California, the **undersigned officers** of FERRY-MORSE SEED COMPANY (CALIFORNIA), a California corporation (the "Corporation"), do hereby **certify** as follows:

- 1. The name of the Corporation is **Ferry-Morse** Seed Company (California).
- 2. **Article** One of the **Corporation's Articles** of Incorporation, which relates to the **name of** the Corporation, is hereby amended in **its entirety** to read as follows:

One. The name of **this** Corporation is: **HARRIS MORAN SEED COMPANY.** 

- 3. The amendment **herein** provided for has been approved by the Corporation's Board of Directors.
- 4. The amendment herein provided for was approved by the written consent of the Corporation's sole shareholder in accordance with the provisions of Section 902 of the California General Corporation Law. The total number of outstanding shares of the corporation is 5,000.

IN WITNESS WHEREOF, each of the undersigned does hereby declare under the penalty of perjury that he or she signed the foregoing Certificate of Amendment as of June 30,

1997, in the Town of Modesto, State of California, in the official capacity set forth beneath his or ha signature and that the statements set forth in this certificate are true of his or her own knowledge.

Yves Queste, President

Nulln Andritsalus



SECRETARY OF STATE



# I, *BILL JONES*, Secretary of State of the State of California, hereby certify:

That the attached transcript has been compared with the record on file in this office, of which it purports to be a copy, and that it is **full**, **true** and correct.

IN WITNESS WHEREOF, I execute this certificate and affix the Great Seal of the State of California this

JUN 3 8 1997



Secretary of State

## PLANT VARIETY PROTECTION REGISTRATION ASSIGNMENTS

#### Clause, S.A. to Harris Moran Seed Company

WHEREAS, Clause, S.A. ("Assignor"), a corporation organized and existing under the laws of France, has sold and transferred assets, including plant variety protection registrations, to Harris Moran Seed Company ("Assignee"), a corporation organized and existing under the laws of the State of Maryland;

WHEREAS, Assignor, is the owner of the following plant variety protection registrations:

<b>VARIETY NAME</b>	Registration No.		Issue Date
BLUE DUET	790003 8		01/14/82
SCORE	7900039		07/15/82
TOP NET SR	8300113	•	08/31/84
TOP NET	8000020		07/31/80
SNOWBALL 123	7900066		1 <b>1/27/79</b>
BISHOP	8300155		02/22/85
DEACON	8300156		01/25/85
LITTLE FINGERS	8200068		12/30/82
EL TORO MI	8200027		04/28/83
DELMAR <b>MI</b>	8000082		12/10/81
GREENFIELD MI	8400013		02/19/88
VAN MOR MI	8100172		03/29/83
YUMA MI	8100167		03/29/85

RED KING	8300024	12/30/83
MORAN 3053	8200105	I 1/26/82
ADVANTAGE	8200104	10/28/82
HARRIS MORAN 3075	8300172	11/29/85
ROYAL GEM	8200045	09/23/82
SUN GOLD	820006 1	03/24/83

WHEREAS, Assignor is desirous of selling and Assignee is desirous of acquiring the aforesaid plant variety protection registrations of Assignor.

NOW **THEREFORE**, for \$10.00 and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor, by these presents sells, assigns and transfers to Assignee, its successors and assigns, all right title and interest in and to the above-referenced plant variety protection registrations, to be held and enjoyed by said Assignee, as fully as the same would have been enjoyed by said Assignor, had this assignment not been made,

Assignor also assigns and transfers to Assignee, any and **all** causes of action, claims, demands, or other rights occasioned from or because of any and all past infringement of any of the above referenced plant variety protection registrations.

Assignor further agrees that upon request, it will execute any and all documents necessary to vest all rights, title and interest in and to the above-referenced plant variety protection registrations

IN WITNESS WHEREOF, said Assignor, has affixed its signature hereto this 22 day of January, 1997

CLAUSE, S.A.

Title: COHANAN